

1. A bearing device comprising:

a shaft having one axial end formed into a cylindrical shape; and

a rolling bearing fitted on the one axial end of said shaft,

wherein said rolling bearing is so fixed on said shaft as to be prevented from coming out by rolling-caulking the one axial end of said shaft to bend it radially outward and by pushing the bent caulked portion onto an outer end face of an inner ring of said rolling bearing; and

wherein a region at an outer end face of said caulked portion from a bending start point to an outer circumferential edge thereof is formed of a composite curve joining curved surfaces of at least two different radii of curvature, said composite curve includes a flat face extending in a radial direction, said flat face being formed at a predetermined region of the outer end face of said caulked portion.

2. A bearing device comprising:

a shaft having one axial end formed into a cylindrical shape; and

a rolling bearing fitted on the one axial end of said shaft,

wherein said rolling bearing is so fixed on said shaft as to be prevented from coming out by rolling-caulking the one axial end of said shaft to bend it radially outward and by pushing the bent caulked portion onto an outer end face of an inner ring of said rolling bearing; and

wherein a region at an outer end face of said caulked portion from a bending start point to an outer circumferential edge thereof is formed having more than one radius of curvature, said region includes a flat face extending in a radial direction, said flat face being formed at a predetermined region of the outer end face of said caulked portion.

3. A bearing device comprising:

a shaft having one axial end formed into a cylindrical shape; and

a rolling bearing fitted on the one axial end of said shaft,

wherein said rolling bearing is so fixed on said shaft as to be prevented from coming out by rolling-caulking the one axial end of said shaft to bend it radially outward and by pushing the bent caulked portion onto an outer end face of an inner ring of said rolling bearing; and

wherein a flat face extending in a radial direction is formed at a predetermined region of an outer end face of said caulked portion.

4. The bearing device according to claim 3, wherein said flat face of said caulked portion is formed at an axially outermost end of the outer end face of said caulked portion.